

10-063583

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OM protein - protein search, using sw model

Run on: June 17, 2006, 02:50:14 ; Search time 70.7983 Seconds  
(without alignments)  
416.646 Million cell updates/sec

Title: US-10-063-583-74  
Perfect score: 1779  
Sequence: 1 MLFSALLLEVINILAAAGGQ.....KRLNKRKSVFTSAQTTEA 337

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 650591 seqs, 87530628 residues

Total number of hits satisfying chosen parameters: 650591

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1500 summaries

Database :  
1: /EMC\_Celerra\_SIDS3/ptodata/2/iaa/5 COMB.pep:\*  
2: /EMC\_Celerra\_SIDS3/ptodata/2/iaa/6 COMB.pep:\*  
3: /EMC\_Celerra\_SIDS3/ptodata/2/iaa/7 COMB.pep:\*  
4: /EMC\_Celerra\_SIDS3/ptodata/2/iaa/H COMB.pep:\*  
5: /EMC\_Celerra\_SIDS3/ptodata/2/iaa/ECTUS\_COMB.pep:\*  
6: /EMC\_Celerra\_SIDS3/ptodata/2/iaa/RE\_COMB.pep:\*  
7: /EMC\_Celerra\_SIDS3/ptodata/2/iaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1779	100.0	337	2	US-10-012-231A-423 Sequence 423, App
2	1779	100.0	337	2	US-10-015-389A-423 Sequence 423, App
3	1779	100.0	337	2	US-10-006-768A-423 Sequence 423, App
4	1779	100.0	337	2	US-10-015-671A-423 Sequence 423, App
5	1779	100.0	337	2	US-10-015-393A-423 Sequence 423, App
6	1779	100.0	337	2	US-10-011-833A-423 Sequence 423, App
7	1779	100.0	337	2	US-10-006-041A-423 Sequence 423, App
8	1779	100.0	337	2	US-10-012-064A-423 Sequence 423, App
9	1779	100.0	337	2	US-10-015-392A-423 Sequence 423, App
10	1779	100.0	337	3	US-10-011-795B-423 Sequence 423, App

11	1779	100.0	337	3	US-10-015-386A-423 Sequence 423, App
12	1779	100.0	337	3	US-10-012-121A-423 Sequence 423, App
13	1779	100.0	337	3	US-10-006-485A-423 Sequence 423, App
14	1779	100.0	337	3	US-10-006-746A-423 Sequence 423, App
15	1779	100.0	337	3	US-10-012-752A-423 Sequence 423, App
16	1779	100.0	337	3	US-10-017-253A-423 Sequence 423, App
17	1779	100.0	337	3	US-10-015-519A-423 Sequence 423, App
18	1779	100.0	337	3	US-10-015-715A-423 Sequence 423, App
19	1779	100.0	337	3	US-10-007-236A-423 Sequence 423, App
20	696.5	39.2	354	1	US-08-276-919-2 Sequence 2, Appli
21	696.5	39.2	354	1	US-08-776-088-2 Sequence 2, Appli
22	696.5	39.2	354	1	US-08-776-088-6 Sequence 6, Appli
23	696.5	39.2	354	2	US-09-325-320-2 Sequence 2, Appli
24	696.5	39.2	354	2	US-09-585-109-2 Sequence 2, Appli
25	696.5	39.2	354	2	US-09-949-016-6043 Sequence 6043, Ap
26	696.5	39.2	354	5	PCT-US95-09145A-2 Sequence 2, Appli
27	696.5	39.2	354	5	PCT-US95-09145A-6 Sequence 6, Appli
28	696.5	39.2	392	2	US-09-949-016-9900 Sequence 9900, Ap
29	691.5	38.9	325	1	US-08-276-919-4 Sequence 4, Appli
30	691.5	38.9	325	1	US-08-776-088-4 Sequence 4, Appli
31	691.5	38.9	325	5	PCT-US95-09145A-4 Sequence 4, Appli
32	689.5	38.8	325	1	US-08-276-919-13 Sequence 13, Appli
33	689.5	38.8	325	1	US-08-776-088-18 Sequence 18, Appli
34	689.5	38.8	325	5	PCT-US95-09145A-18 Sequence 18, Appli
35	654.5	36.8	274	1	US-08-776-088-15 Sequence 15, Appli
36	654.5	36.8	274	5	PCT-US95-09145A-15 Sequence 15, Appli
37	648.5	36.5	271	1	US-08-276-919-10 Sequence 10, Appli
38	648.5	36.5	271	1	US-08-776-088-13 Sequence 13, Appli
39	648.5	36.5	271	5	PCT-US95-09145A-13 Sequence 13, Appli
40	562	31.6	422	2	US-08-335-469-2 Sequence 2, Appli
41	562	31.6	422	2	US-08-260-190-2 Sequence 2, Appli
42	562	31.6	459	1	US-08-481-658B-2 Sequence 2, Appli
43	562	31.6	459	1	US-08-477-504A-2 Sequence 2, Appli
44	562	31.6	459	1	US-08-486-756A-2 Sequence 2, Appli
45	562	31.6	459	1	US-08-485-862B-2 Sequence 2, Appli
46	562	31.6	459	2	US-08-787-739-2 Sequence 2, Appli
47	562	31.6	459	2	US-08-487-077A-2 Sequence 2, Appli
48	562	31.6	459	2	US-08-485-863A-2 Sequence 2, Appli
49	562	31.6	459	2	US-08-485-049D-2 Sequence 2, Appli
50	562	31.6	459	2	US-09-178-115-2 Sequence 2, Appli
51	562	31.6	459	2	US-09-177-776-2 Sequence 2, Appli
52	562	31.6	459	2	US-09-772-719B-2 Sequence 2, Appli
53	562	31.6	459	2	US-08-260-190-6 Sequence 6, Appli
54	562	31.6	459	2	US-09-949-016-6042 Sequence 6042, Ap
55	562	31.6	473	2	US-09-949-016-10203 Sequence 10203, A
56	535	30.1	377	2	US-08-787-739-87 Sequence 87, Appli
57	535	30.1	377	2	US-09-178-115-87 Sequence 87, Appli
58	535	30.1	377	2	US-09-177-776-87 Sequence 87, Appli
59	533.5	30.0	256	1	US-08-481-658B-51 Sequence 51, Appli
60	533.5	30.0	256	1	US-08-477-504A-51 Sequence 51, Appli
61	533.5	30.0	256	1	US-08-486-756A-51 Sequence 51, Appli
62	533.5	30.0	256	1	US-08-485-862B-51 Sequence 51, Appli
63	533.5	30.0	256	2	US-08-487-077A-51 Sequence 51, Appli
64	533.5	30.0	256	2	US-08-485-863A-51 Sequence 51, Appli
65	533.5	30.0	256	2	US-08-485-049D-51 Sequence 51, Appli
66	533.5	30.0	256	2	US-09-772-719B-51 Sequence 51, Appli
67	533.5	30.0	257	2	US-08-787-739-51 Sequence 51, Appli

68	533.5	30.0	257	2	US-08-178-115-51	Sequence 51, Appli	125	380.5	21.4	260	2	US-10-000-954-4	Sequence 4, Appli
69	533.5	30.0	257	2	US-09-177-776-51	Sequence 51, Appli	126	380.5	21.4	261	1	US-08-015-986A-8	Sequence 8, Appli
70	519.5	29.2	262	1	US-08-015-986A-11	Sequence 11, Appli	127	380.5	21.4	261	1	US-08-446-363-8	Sequence 8, Appli
71	519.5	29.2	262	1	US-08-446-363-11	Sequence 11, Appli	128	380.5	21.4	261	2	US-09-802-764-4	Sequence 4, Appli
72	493	27.7	262	1	US-08-015-973-8	Sequence 8, Appli	129	380.5	21.4	312	2	US-10-099-322-20	Sequence 20, Appli
73	493	27.7	262	1	US-08-448-164-8	Sequence 8, Appli	130	380.5	21.4	312	2	US-10-099-322-86	Sequence 86, Appli
74	493	27.7	262	1	US-08-081-929-8	Sequence 8, Appli	131	380.5	21.4	312	2	US-10-044-564-20	Sequence 20, Appli
75	493	27.7	262	1	US-10-000-954-8	Sequence 8, Appli	132	380.5	21.4	312	2	US-10-044-564-86	Sequence 86, Appli
76	482.5	27.1	255	2	US-10-099-322-304	Sequence 304, App	133	374.5	21.1	260	2	US-08-081-929-10	Sequence 10, Appli
77	482.5	27.1	255	2	US-10-044-564-304	Sequence 304, App	134	374.5	21.1	260	2	US-10-000-954-10	Sequence 10, Appli
78	458.5	25.8	1442	1	US-08-015-986A-3	Sequence 3, Appli	135	373	21.0	266	2	US-10-099-322-88	Sequence 88, Appli
79	458.5	25.8	1442	1	US-08-446-363-3	Sequence 3, Appli	136	373	21.0	266	2	US-10-044-564-88	Sequence 88, Appli
80	451.5	25.4	1445	1	US-08-015-986A-2	Sequence 2, Appli	137	373	21.0	268	1	US-08-015-973-7	Sequence 7, Appli
81	451.5	25.4	1445	1	US-08-446-363-2	Sequence 2, Appli	138	373	21.0	268	1	US-08-448-164-7	Sequence 7, Appli
82	439.5	24.7	267	1	US-08-015-973-3	Sequence 3, Appli	139	373	21.0	268	2	US-08-081-929-7	Sequence 7, Appli
83	439.5	24.7	267	1	US-08-448-164-3	Sequence 3, Appli	140	373	21.0	268	2	US-10-000-954-7	Sequence 7, Appli
84	439.5	24.7	267	2	US-08-081-929-3	Sequence 3, Appli	141	365	20.5	373	1	US-08-015-986A-14	Sequence 14, Appli
85	439.5	24.7	267	2	US-10-000-954-3	Sequence 3, Appli	142	365	20.5	373	1	US-08-446-363-14	Sequence 14, Appli
86	421	23.7	287	2	US-09-949-016-10412	Sequence 10412, A	143	365	20.5	2308	1	US-08-015-973-1	Sequence 1, Appli
87	420	23.6	259	1	US-08-015-973-5	Sequence 5, Appli	144	365	20.5	2308	1	US-08-448-164-1	Sequence 1, Appli
88	420	23.6	259	1	US-08-448-164-5	Sequence 5, Appli	145	365	20.5	2308	1	US-08-081-929-2	Sequence 2, Appli
89	420	23.6	259	2	US-08-081-929-5	Sequence 5, Appli	146	365	20.5	2308	2	US-10-000-954-2	Sequence 2, Appli
90	420	23.6	259	2	US-10-000-954-5	Sequence 5, Appli	147	365	20.5	2314	2	US-09-816-703A-2	Sequence 2, Appli
91	420	23.6	260	1	US-08-015-986A-9	Sequence 9, Appli	148	363	20.4	344	2	US-09-270-767-41438	Sequence 41438, A
92	420	23.6	260	1	US-08-446-363-9	Sequence 9, Appli	149	362	20.3	266	1	US-08-015-986A-12	Sequence 12, Appli
93	420	23.6	260	2	US-08-927-128-4	Sequence 4, Appli	150	362	20.3	266	1	US-08-446-363-12	Sequence 12, Appli
94	420	23.6	260	2	US-09-976-594-644	Sequence 644, App	151	360.5	20.3	270	1	US-08-452-052-1	Sequence 1, Appli
95	414	23.3	429	1	US-07-964-589-2	Sequence 2, Appli	152	359.5	20.2	262	2	US-10-099-322-89	Sequence 89, Appli
96	414	23.3	429	5	PCT-US93-02024-2	Sequence 2, Appli	153	359.5	20.2	262	2	US-10-044-564-89	Sequence 89, Appli
97	411	23.1	264	2	US-09-949-016-6599	Sequence 6599, Ap	154	354	19.9	294	2	US-10-099-322-87	Sequence 87, Appli
98	410	23.0	288	1	US-08-595-868C-12	Sequence 12, Appli	155	354	19.9	294	2	US-10-044-564-87	Sequence 87, Appli
99	410	23.0	288	2	US-09-139-819A-12	Sequence 12, Appli	156	310.5	17.5	335	2	US-10-099-322-90	Sequence 90, Appli
100	410	23.0	288	2	US-09-750-913-12	Sequence 12, Appli	157	310.5	17.5	335	2	US-10-044-564-90	Sequence 90, Appli
101	406	22.8	259	1	US-08-015-986A-10	Sequence 10, Appli	158	288.5	16.2	328	1	US-08-977-767-1	Sequence 1, Appli
102	406	22.8	259	1	US-08-015-973-6	Sequence 6, Appli	159	288.5	16.2	328	2	US-09-999-833A-358	Sequence 358, App
103	406	22.8	259	1	US-08-446-363-10	Sequence 10, Appli	160	288.5	16.2	328	2	US-10-020-445A-358	Sequence 358, App
104	406	22.8	259	1	US-08-448-164-6	Sequence 6, Appli	161	288.5	16.2	328	2	US-09-978-189-358	Sequence 358, App
105	406	22.8	259	2	US-08-081-929-6	Sequence 6, Appli	162	288.5	16.2	328	2	US-10-017-085A-358	Sequence 358, App
106	406	22.8	259	2	US-10-000-954-6	Sequence 6, Appli	163	288.5	16.2	328	3	US-10-145-129A-358	Sequence 358, App
107	406	22.8	364	2	US-09-949-016-8113	Sequence 8113, Ap	164	288.5	16.2	328	3	US-10-013-929A-358	Sequence 358, App
108	405	22.8	421	2	US-09-938-270B-1	Sequence 1, Appli	165	288.5	16.2	328	3	US-10-013-917A-358	Sequence 358, App
109	393	22.1	261	1	US-08-015-973-9	Sequence 9, Appli	166	288.5	16.2	385	2	US-09-949-016-11213	Sequence 11213, A
110	393	22.1	261	1	US-08-448-164-9	Sequence 9, Appli	167	280.5	15.8	201	1	US-08-469-667-18	Sequence 18, Appli
111	393	22.1	261	2	US-08-081-929-9	Sequence 9, Appli	168	280.5	15.8	201	2	US-09-224-110-18	Sequence 18, Appli
112	393	22.1	261	2	US-10-000-954-9	Sequence 9, Appli	169	280.5	15.8	201	5	PCT-US93-07289-18	Sequence 18, Appli
113	387	21.8	288	2	US-09-949-016-8850	Sequence 8850, Ap	170	280.5	15.8	201	5	PCT-US93-07289-18	Sequence 18, Appli
114	385.5	21.7	170	1	US-08-481-658B-54	Sequence 54, Appli	171	266	15.0	235	1	US-08-015-986A-13	Sequence 13, Appli
115	385.5	21.7	170	1	US-08-477-504A-54	Sequence 54, Appli	172	266	15.0	235	1	US-08-446-363-13	Sequence 13, Appli
116	385.5	21.7	170	1	US-08-486-756A-54	Sequence 54, Appli	173	257.5	14.5	782	2	US-09-270-767-60075	Sequence 44626, A
117	385.5	21.7	170	1	US-08-485-862B-54	Sequence 54, Appli	174	250.5	14.1	486	2	US-09-270-767-60075	Sequence 60075, A
118	385.5	21.7	170	2	US-08-487-077A-54	Sequence 54, Appli	175	243.5	13.7	132	2	US-09-513-999C-4373	Sequence 4373, Ap
119	385.5	21.7	170	2	US-08-485-863A-54	Sequence 54, Appli	176	176	9.9	147	2	US-09-270-767-33301	Sequence 33301, A
120	385.5	21.7	170	2	US-08-485-049D-54	Sequence 54, Appli	177	169.5	9.5	443	2	US-09-270-767-33409	Sequence 33409, A
121	385.5	21.7	170	2	US-09-772-719B-54	Sequence 54, Appli	178	169.5	9.5	443	2	US-09-270-767-48626	Sequence 48626, A
122	380.5	21.4	260	1	US-08-015-973-4	Sequence 4, Appli	179	163.5	9.2	430	1	US-08-945-848-8	Sequence 8, Appli
123	380.5	21.4	260	1	US-08-448-164-4	Sequence 4, Appli	180	160.5	9.0	106	2	US-09-270-767-33324	Sequence 33324, A
124	380.5	21.4	260	2	US-08-081-929-4	Sequence 4, Appli	181	158.5	8.9	234	2	US-09-107-532A-5283	Sequence 5283, Ap

182	156	8.8	105	2	US-09-513-999C-5350	Sequence 5350, Ap	239	85	4.8	984	1	US-08-702-367A-19	Sequence 19, Appl
183	150.5	8.5	144	2	US-09-621-976-5098	Sequence 5098, Ap	240	85	4.8	984	2	US-09-378-759-19	Sequence 19, Appl
184	119	6.7	123	2	US-09-270-767-33649	Sequence 33649, A	241	85	4.8	984	5	PCT-US95-04681-19	Sequence 19, Appl
185	119	6.7	123	2	US-09-270-767-48866	Sequence 48866, A	242	85	4.8	2273	2	US-09-426-998-5	Sequence 5, Appli
186	114.5	6.4	3647	2	US-09-949-016-10932	Sequence 10932, A	243	84.5	4.7	1184	1	US-08-446-0388-20	Sequence 20, Appl
187	112	6.3	140	2	US-09-270-767-33338	Sequence 33338, A	244	84.5	4.7	1184	1	US-08-446-0108-20	Sequence 20, Appl
188	112	6.3	140	2	US-09-270-767-48555	Sequence 48555, A	245	84.5	4.7	1184	1	US-08-805-443-20	Sequence 20, Appl
189	105.5	5.9	1439	1	US-08-449-644-2	Sequence 2, Appli	246	84.5	4.7	1184	1	US-08-064-067D-20	Sequence 20, Appl
190	105.5	5.9	1439	1	US-08-087-244A-2	Sequence 2, Appli	247	84.5	4.7	1184	1	US-09-066-208-20	Sequence 20, Appl
191	104	5.8	3597	2	US-10-037-417-6	Sequence 6, Appli	248	84.5	4.7	1299	2	US-08-460-900C-62	Sequence 62, Appl
192	104	5.8	3600	2	US-10-037-417-2	Sequence 6, Appli	249	84.5	4.7	1299	2	US-08-674-509B-48	Sequence 48, Appl
193	103.5	5.8	1457	1	US-08-652-971-3	Sequence 3, Appli	250	84.5	4.7	1299	2	US-08-954-698-48	Sequence 48, Appl
194	103.5	5.8	1457	1	US-08-449-644-1	Sequence 1, Appli	251	84.5	4.7	1299	2	US-09-639-693-62	Sequence 62, Appl
195	103.5	5.8	1457	1	US-08-087-244A-1	Sequence 1, Appli	252	84.5	4.7	1299	2	US-09-448-188-48	Sequence 48, Appl
196	103.5	5.8	1457	1	US-08-991-258A-3	Sequence 3, Appli	253	84.5	4.7	1299	2	US-08-954-128-48	Sequence 48, Appl
197	103.5	5.8	1457	1	US-08-769-393-3	Sequence 3, Appli	254	84.5	4.7	1299	2	US-08-954-740-48	Sequence 48, Appl
198	103.5	5.8	1457	2	US-08-991-953A-3	Sequence 3, Appli	255	84.5	4.7	1457	2	US-09-713-273A-18	Sequence 18, Appl
199	100	5.6	104	2	US-09-270-767-33498	Sequence 33498, A	256	84	4.7	697	2	US-09-949-016-9660	Sequence 9660, Ap
200	100	5.6	104	2	US-09-270-767-48715	Sequence 48715, A	257	83.5	4.7	501	2	US-08-857-076-102	Sequence 102, App
201	98	5.5	530	2	US-08-486-049-3	Sequence 3, Appli	258	83.5	4.7	547	2	US-09-877-730-26	Sequence 26, Appl
202	98	5.5	530	2	US-10-314-739A-3	Sequence 3, Appli	259	83.5	4.7	628	2	US-09-877-730-30	Sequence 30, Appl
203	97	5.5	518	2	US-09-113-309-19	Sequence 19, Appl	260	83.5	4.7	686	2	US-09-328-352-4303	Sequence 4303, Ap
204	97	5.5	518	2	US-09-521-109-19	Sequence 19, Appl	261	83.5	4.7	826	2	US-09-877-730-16	Sequence 16, Appl
205	97	5.5	518	2	US-09-562-332-19	Sequence 19, Appl	262	83.5	4.7	904	2	US-09-877-730-6	Sequence 6, Appli
206	97	5.5	545	2	US-08-974-180-15	Sequence 15, Appl	263	83.5	4.7	907	2	US-09-877-730-20	Sequence 20, Appl
207	97	5.5	856	2	US-09-248-796A-16089	Sequence 16089, A	264	83.5	4.7	985	2	US-09-877-730-10	Sequence 10, Appl
208	96	5.4	374	2	US-09-638-937-2	Sequence 2, Appli	265	83.5	4.7	1187	1	US-08-357-598-8	Sequence 8, Appli
209	95.5	5.4	346	2	US-09-270-767-45452	Sequence 45452, A	266	83.5	4.7	1187	1	US-08-007-997A-13	Sequence 13, Appl
210	95	5.3	810	2	US-09-538-092-1275	Sequence 1275, Ap	267	83.5	4.7	1187	1	US-09-003-289-8	Sequence 8, Appli
211	95	5.3	953	2	US-09-845-583A-4	Sequence 4, Appli	268	83.5	4.7	1187	2	US-08-665-574C-13	Sequence 13, Appl
212	95	5.3	953	2	US-10-037-417-50	Sequence 50, Appl	269	83.5	4.7	1187	2	US-08-946-994-13	Sequence 13, Appl
213	95	5.3	1634	2	US-09-877-730-24	Sequence 49, Appl	270	83.5	4.7	1187	2	US-09-972-800A-18	Sequence 18, Appl
214	95	5.3	3695	2	US-10-037-182-2	Sequence 2, Appli	271	83.5	4.7	1187	2	US-09-397-967A-13	Sequence 13, Appl
215	93	5.2	908	2	US-10-037-417-4	Sequence 4, Appli	272	83.5	4.7	1187	5	PCT-US95-16435-8	Sequence 8, Appli
216	93	5.2	1640	2	US-10-037-417-8	Sequence 8, Appli	273	83.5	4.7	1469	2	US-09-713-273A-16	Sequence 16, Appl
217	92	5.2	746	2	US-09-252-991A-29228	Sequence 29228, A	274	83	4.7	457	2	US-09-394-142B-22	Sequence 22, Appl
218	91	5.1	534	2	US-09-087-134-11	Sequence 11, Appl	275	83	4.7	579	2	US-09-244-805-38	Sequence 38, Appl
219	91	5.1	694	2	US-09-328-352-7276	Sequence 7276, Ap	276	83	4.7	984	1	US-08-673-789-9	Sequence 9, Appli
220	89	5.0	560	2	US-09-139-064-6	Sequence 6, Appli	277	83	4.7	2907	2	US-09-698-295-1	Sequence 1, Appli
221	89	5.0	560	2	US-09-487-370-6	Sequence 6, Appli	278	82.5	4.6	307	2	US-10-037-417-91	Sequence 91, Appl
222	89	5.0	560	2	US-09-248-796A-22980	Sequence 22980, A	279	82.5	4.6	479	2	US-09-004-838-123	Sequence 123, App
223	88	4.9	328	2	US-09-489-847-310	Sequence 310, App	280	82.5	4.6	635	2	US-10-101-464A-932	Sequence 932, App
224	87.5	4.9	424	2	US-10-029-180-104	Sequence 104, App	281	81.5	4.6	372	2	US-09-638-937-4	Sequence 4, Appli
225	87.5	4.9	624	2	US-09-877-730-24	Sequence 24, Appl	282	81.5	4.6	664	2	US-09-107-532A-7252	Sequence 7252, Ap
226	87.5	4.9	712	2	US-09-877-730-22	Sequence 22, Appl	283	81.5	4.6	994	2	US-09-949-016-6779	Sequence 6779, Ap
227	87.5	4.9	793	2	US-09-877-730-28	Sequence 28, Appl	284	81	4.6	189	2	US-09-902-540-16173	Sequence 16173, A
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229	87.5	4.9	1069	2	US-09-877-730-2	Sequence 2, Appli	286	81	4.6	460	2	US-09-147-955-2	Sequence 2, Appli
230	87.5	4.9	1072	2	US-09-877-730-18	Sequence 18, Appl	287	81	4.6	513	2	US-09-252-991A-32658	Sequence 32658, A
231	87.5	4.9	1150	2	US-09-877-730-8	Sequence 8, Appli	288	81	4.6	561	2	US-09-902-540-15714	Sequence 15714, A
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358 78 4.4 400 2 US-09-538-092-1146 Sequence 1146, Ap  
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378 77 4.3 573 2 US-09-902-540-12155 Sequence 12155, A  
379 77 4.3 751 2 US-09-252-991A-29893 Sequence 29893, A  
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383 77 4.3 1419 2 US-09-252-991A-31822 Sequence 31822, A  
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396 76.5 4.3 792 2 US-09-949-016-10798 Sequence 10798, A  
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406 76 4.3 457 2 US-09-416-214-2 Sequence 2, Appli  
407 76 4.3 457 2 US-09-035-676-2 Sequence 2, Appli  
408 76 4.3 457 2 US-10-161-346-2 Sequence 2, Appli  
409 76 4.3 506 1 US-08-845-161A-18 Sequence 18, Appli

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415	76	4.3	553	2	US-09-430-669-2	Sequence 2, Appl
416	76	4.3	575	2	US-10-104-047-2221	Sequence 2221, Ap
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466	75	4.2	657	2	US-10-104-047-2529	Sequence 2529, Ap

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505	74.5	4.2	752	2	US-09-159-469-61	Sequence 61, Appl
506	74.5	4.2	752	2	US-09-633-542-61	Sequence 61, Appl
507	74.5	4.2	815	2	US-09-196-270-7	Sequence 7, Appl
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516	74.5	4.2	1313	2	US-10-206-576-450	Sequence 450, App
517	74.5	4.2	1313	2	US-10-206-576-454	Sequence 454, App
518	74	4.2	146	2	US-09-732-210-616	Sequence 616, App
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786	71	4.0	593	2	US-09-105-254-2	Sequence 2, Appli	843	70.5	4.0	388	1	US-08-456-956-2	Sequence 2, Appli
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790	71	4.0	635	2	US-09-538-092-1	Sequence 1, Appli	847	70.5	4.0	453	7	5510466-4	Patent No. 5510466
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792	71	4.0	706	1	US-08-484-105-16	Sequence 16, Appli	849	70.5	4.0	485	2	US-09-543-681A-7443	Sequence 7443, App
793	71	4.0	706	1	US-08-484-106-16	Sequence 16, Appli	850	70.5	4.0	493	2	US-08-979-847B-106	Sequence 106, App
794	71	4.0	722	2	US-09-252-991A-27003	Sequence 27003, A	851	70.5	4.0	506	2	US-08-942-012B-26	Sequence 26, Appli
795	71	4.0	724	2	US-09-724-653-9	Sequence 9, Appli	852	70.5	4.0	506	2	US-09-252-991A-27119	Sequence 27119, A
796	71	4.0	736	2	US-09-949-016-8076	Sequence 8076, Ap	853	70.5	4.0	507	2	US-09-252-991A-23541	Sequence 23541, A
797	71	4.0	738	2	US-09-538-092-818	Sequence 818, App	854	70.5	4.0	617	2	US-09-252-991A-22318	Sequence 22318, A
798	71	4.0	836	2	US-10-281-867-2	Sequence 2, Appli	855	70.5	4.0	626	2	US-09-949-016-6776	Sequence 6776, Ap
799	71	4.0	877	2	US-09-492-709A-353	Sequence 353, App	856	70.5	4.0	700	2	US-09-902-540-11256	Sequence 11256, A
800	71	4.0	895	1	US-08-123-161A-8	Sequence 8, Appli	857	70.5	4.0	770	2	US-10-104-047-2533	Sequence 2533, Ap
801	71	4.0	895	1	US-08-483-278-8	Sequence 8, Appli	858	70.5	4.0	773	2	US-09-252-991A-19916	Sequence 19916, A
802	71	4.0	895	2	US-09-949-016-6490	Sequence 6490, Ap	859	70.5	4.0	848	2	US-09-491-356C-22	Sequence 22, Appli
803	71	4.0	908	2	US-09-949-016-8542	Sequence 8542, Ap	860	70.5	4.0	850	2	US-09-328-352-6583	Sequence 6583, Ap
804	71	4.0	1092	2	US-09-252-991A-28476	Sequence 28476, A	861	70.5	4.0	971	2	US-09-538-092-1332	Sequence 1332, Ap
805	71	4.0	1099	2	US-09-949-002-561	Sequence 561, App	862	70.5	4.0	1113	1	US-09-618-425-9	Sequence 9, Appli
806	71	4.0	1400	2	US-09-949-002-344	Sequence 344, App	863	70.5	4.0	1118	1	US-08-724-354D-2	Sequence 2, Appli
807	71	4.0	1531	2	US-09-949-016-6740	Sequence 6740, Ap	864	70.5	4.0	1118	2	US-09-270-984A-2	Sequence 2, Appli
808	71	4.0					865	70.5	4.0	1183	2	US-09-248-796A-14987	Sequence 14987, A



866	70.5	4.0	1315	2	US-09-902-540-16086	Sequence 16086, A	923	70	3.9	1190	2	US-09-048-887-2	Sequence 2, Appli
867	70.5	4.0	1376	2	US-09-252-991A-29515	Sequence 29515, A	924	70	3.9	1455	1	US-08-726-012B-2	Sequence 2, Appli
868	70.5	4.0	1447	1	US-08-540-406-19	Sequence 19, Appl	925	70	3.9	1527	2	US-09-376-330-2	Sequence 2, Appli
869	70.5	4.0	1447	2	US-08-656-055-19	Sequence 19, Appl	926	69.5	3.9	108	2	US-09-199-637A-391	Sequence 391, App
870	70.5	4.0	1447	2	US-08-954-668-19	Sequence 19, Appl	927	69.5	3.9	131	2	US-09-805-694B-12	Sequence 12, Appl
871	70.5	4.0	1447	2	US-09-268-140-5	Sequence 5, Appli	928	69.5	3.9	157	2	US-09-270-767-32528	Sequence 32528, A
872	70.5	4.0	1447	2	US-08-918-658-19	Sequence 19, Appl	929	69.5	3.9	223	2	US-09-949-016-10045	Sequence 10045, A
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874	70.5	4.0	1447	2	US-08-954-701A-19	Sequence 19, Appl	931	69.5	3.9	296	2	US-09-248-796A-16691	Sequence 16691, A
875	70.5	4.0	1447	2	US-09-807-007-6	Sequence 6, Appli	932	69.5	3.9	344	2	US-09-134-001C-4175	Sequence 4175, Ap
876	70.5	4.0	1447	2	US-09-754-032-19	Sequence 19, Appl	933	69.5	3.9	346	2	US-09-199-637A-313	Sequence 313, App
877	70.5	4.0	1447	2	US-08-916-140-19	Sequence 19, Appl	934	69.5	3.9	355	2	US-09-616-506-3	Sequence 3, Appli
878	70.5	4.0	1447	5	PCT-US95-13233-19	Sequence 19, Appl	935	69.5	3.9	355	2	US-09-616-506-4	Sequence 4, Appli
879	70.5	4.0	1586	2	US-09-543-681A-5329	Sequence 5329, Ap	936	69.5	3.9	355	2	US-09-574-377-31	Sequence 31, Appl
880	70.5	4.0	1778	2	US-09-252-991A-18159	Sequence 18159, A	937	69.5	3.9	355	2	US-09-811-673-4	Sequence 4, Appli
881	70	3.9	278	2	US-09-248-796A-20610	Sequence 20610, A	938	69.5	3.9	355	2	US-10-184-194-31	Sequence 31, Appl
882	70	3.9	288	2	US-09-270-767-42632	Sequence 42632, A	939	69.5	3.9	364	2	US-09-270-767-43896	Sequence 43896, A
883	70	3.9	301	2	US-08-957-610A-703	Sequence 703, App	940	69.5	3.9	375	2	US-09-638-937-13	Sequence 13, Appl
884	70	3.9	306	2	US-09-252-991A-20009	Sequence 20009, A	941	69.5	3.9	376	2	US-09-538-092-1276	Sequence 1276, Ap
885	70	3.9	323	2	US-09-543-681A-6916	Sequence 6916, Ap	942	69.5	3.9	380	1	US-08-585-758A-4	Sequence 4, Appli
886	70	3.9	343	2	US-09-252-991A-26240	Sequence 26240, A	943	69.5	3.9	380	1	US-08-977-818-4	Sequence 4, Appli
887	70	3.9	368	2	US-09-000-092-2	Sequence 2, Appli	944	69.5	3.9	380	1	US-08-670-274B-4	Sequence 4, Appli
888	70	3.9	368	2	US-09-000-092-4	Sequence 4, Appli	945	69.5	3.9	380	2	US-09-146-187-4	Sequence 4, Appli
889	70	3.9	368	2	US-09-000-092-8	Sequence 8, Appli	946	69.5	3.9	380	2	US-09-804-690-4	Sequence 4, Appli
890	70	3.9	368	2	US-09-000-092-10	Sequence 10, Appl	947	69.5	3.9	387	1	US-08-837-593-4	Sequence 4, Appli
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892	70	3.9	419	2	US-09-276-438-13	Sequence 13, Appl	949	69.5	3.9	388	1	US-09-207-844-2	Sequence 2, Appli
893	70	3.9	466	2	US-10-094-749-3131	Sequence 3131, Ap	950	69.5	3.9	388	2	US-09-248-796A-23255	Sequence 23255, A
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895	70	3.9	543	2	US-09-702-705-337	Sequence 337, App	952	69.5	3.9	390	2	US-09-216-387-1	Sequence 1, Appli
896	70	3.9	543	2	US-09-736-457-337	Sequence 337, App	953	69.5	3.9	390	2	US-09-886-319A-2	Sequence 2, Appli
897	70	3.9	543	2	US-09-614-124B-337	Sequence 337, App	954	69.5	3.9	393	2	US-10-126-279-2	Sequence 2, Appli
898	70	3.9	543	2	US-09-671-325-337	Sequence 337, App	955	69.5	3.9	393	2	US-10-286-606-2	Sequence 2, Appli
899	70	3.9	543	2	US-09-589-184-337	Sequence 337, App	956	69.5	3.9	394	2	US-10-891-383A-2	Sequence 2, Appli
900	70	3.9	543	2	US-09-658-824-337	Sequence 337, App	957	69.5	3.9	403	2	US-09-949-016-11251	Sequence 11251, A
901	70	3.9	543	2	US-09-538-092-953	Sequence 953, App	958	69.5	3.9	438	2	US-09-902-540-10924	Sequence 10924, A
902	70	3.9	543	2	US-10-017-754-337	Sequence 337, App	959	69.5	3.9	472	2	US-09-252-991A-32479	Sequence 32479, A
903	70	3.9	543	2	US-09-651-563-337	Sequence 337, App	960	69.5	3.9	494	2	US-09-614-912-128	Sequence 128, App
904	70	3.9	543	2	US-09-519-642-337	Sequence 337, App	961	69.5	3.9	552	2	US-09-270-767-33451	Sequence 33451, A
905	70	3.9	543	2	US-09-648-389A-3	Sequence 3, Appli	962	69.5	3.9	552	2	US-09-270-767-48668	Sequence 48668, A
906	70	3.9	543	2	US-09-648-389A-5	Sequence 5, Appli	963	69.5	3.9	587	1	US-07-955-905A-23	Sequence 23, Appl
907	70	3.9	601	2	US-10-104-047-3005	Sequence 3005, Ap	964	69.5	3.9	602	2	US-09-257-490-15	Sequence 15, Appl
908	70	3.9	605	2	US-09-394-645-2	Sequence 2, Appli	965	69.5	3.9	632	1	US-08-443-104-4	Sequence 4, Appli
909	70	3.9	605	2	US-09-243-560B-2	Sequence 2, Appli	966	69.5	3.9	632	1	US-08-442-859-4	Sequence 4, Appli
910	70	3.9	605	2	US-09-832-129-37	Sequence 37, Appl	967	69.5	3.9	632	1	US-08-398-489-4	Sequence 4, Appli
911	70	3.9	625	2	US-09-196-270-6	Sequence 6, Appli	968	69.5	3.9	632	5	PCT-US93-05534-4	Sequence 4, Appli
912	70	3.9	625	2	US-09-538-092-377	Sequence 377, App	969	69.5	3.9	640	2	US-09-248-796A-16129	Sequence 16129, A
913	70	3.9	625	2	US-09-487-558B-294	Sequence 294, App	970	69.5	3.9	665	2	US-09-248-796A-14200	Sequence 14200, A
914	70	3.9	654	2	US-10-094-749-1854	Sequence 1854, Ap	971	69.5	3.9	718	2	US-09-252-991A-28229	Sequence 28229, A
915	70	3.9	656	2	US-09-248-796A-15211	Sequence 15211, A	972	69.5	3.9	824	1	US-08-785-310A-7	Sequence 7, Appli
916	70	3.9	666	2	US-10-104-047-3618	Sequence 3618, Ap	973	69.5	3.9	854	2	US-09-286-551-16	Sequence 16, Appl
917	70	3.9	703	2	US-09-433-043B-124	Sequence 124, App	974	69.5	3.9	863	2	US-09-894-927B-9	Sequence 9, Appli
918	70	3.9	760	2	US-09-107-532A-5490	Sequence 5490, Ap	975	69.5	3.9	879	2	US-09-872-733A-16	Sequence 16, Appl
919	70	3.9	876	2	US-09-605-703B-1640	Sequence 1640, Ap	976	69.5	3.9	905	2	US-09-902-540-10223	Sequence 10223, A
920	70	3.9	1007	2	US-09-538-092-736	Sequence 736, App	977	69.5	3.9	906	2	US-09-107-532A-6450	Sequence 6450, Ap
921	70	3.9	1088	2	US-09-233-857-4	Sequence 4, Appli	978	69.5	3.9	923	2	US-09-270-767-45546	Sequence 45546, A
922	70	3.9	1190	1	US-08-337-690A-2	Sequence 2, Appli	979	69.5	3.9	972	2	US-09-469-200B-9	Sequence 9, Appli

980	69.5	3.9	972	2	US-10-172-527A-10	Sequence 10, Appl	1037	69	3.9	608	2	US-09-134-001C-3855	Sequence 3855, Ap
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984	69.5	3.9	1233	2	US-09-605-703B-2698	Sequence 2698, Ap	1041	69	3.9	662	2	US-09-252-991A-18392	Sequence 18392, A
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986	69.5	3.9	1264	1	US-08-005-002C-6	Sequence 6, Appl	1043	69	3.9	729	2	US-09-625-188-20	Sequence 20, Appl
987	69.5	3.9	1264	1	US-08-487-203A-6	Sequence 6, Appl	1044	69	3.9	744	2	US-09-785-381-1	Sequence 1, Appl
988	69.5	3.9	1484	2	US-09-902-540-14332	Sequence 14332, A	1045	69	3.9	770	2	US-09-270-767-43871	Sequence 43871, A
989	69.5	3.9	1493	2	US-09-713-273A-20	Sequence 20, Appl	1046	69	3.9	797	2	US-09-949-016-6761	Sequence 6761, Ap
990	69	3.9	222	1	US-08-927-203A-2	Sequence 2, Appl	1047	69	3.9	915	2	US-09-817-514A-6	Sequence 6, Appl
991	69	3.9	222	2	US-09-151-052-2	Sequence 2, Appl	1048	69	3.9	935	2	US-09-271-438A-3	Sequence 3, Appl
992	69	3.9	238	2	US-09-270-767-33105	Sequence 33105, A	1049	69	3.9	935	2	US-09-271-438A-8	Sequence 8, Appl
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994	69	3.9	301	2	US-09-270-767-40023	Sequence 40023, A	1051	69	3.9	935	2	US-10-077-151-1	Sequence 1, Appl
995	69	3.9	301	2	US-09-270-767-55239	Sequence 55239, A	1052	69	3.9	935	2	US-09-641-892B-3	Sequence 3, Appl
996	69	3.9	305	2	US-09-902-540-11093	Sequence 11093, A	1053	69	3.9	951	2	US-09-328-352-4456	Sequence 4456, Ap
997	69	3.9	323	2	US-10-012-231A-210	Sequence 210, App	1054	69	3.9	965	2	US-09-437-277-3	Sequence 3, Appl
998	69	3.9	323	2	US-10-015-389A-210	Sequence 210, App	1055	69	3.9	972	2	US-10-217-613A-7	Sequence 7, Appl
999	69	3.9	323	2	US-10-006-768A-210	Sequence 210, App	1056	69	3.9	976	1	US-08-449-645A-18	Sequence 18, Appl
1000	69	3.9	323	2	US-10-015-671A-210	Sequence 210, App	1057	69	3.9	976	1	US-08-702-367A-18	Sequence 18, Appl
1001	69	3.9	323	2	US-10-015-393A-210	Sequence 210, App	1058	69	3.9	976	2	US-09-949-016-6499	Sequence 6499, Ap
1002	69	3.9	323	2	US-10-011-833A-210	Sequence 210, App	1059	69	3.9	976	2	US-09-378-759-18	Sequence 18, Appl
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1004	69	3.9	323	2	US-10-012-064A-210	Sequence 210, App	1061	69	3.9	977	1	US-08-673-789-8	Sequence 8, Appl
1005	69	3.9	323	2	US-10-015-392A-210	Sequence 210, App	1062	69	3.9	1013	2	US-09-949-016-7991	Sequence 7991, Ap
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1008	69	3.9	323	3	US-10-012-121A-210	Sequence 210, App	1065	69	3.9	1137	2	US-09-902-481B-4	Sequence 4, Appl
1009	69	3.9	323	3	US-10-006-485A-210	Sequence 210, App	1066	69	3.9	1137	2	US-09-902-481B-5	Sequence 5, Appl
1010	69	3.9	323	3	US-10-006-746A-210	Sequence 210, App	1067	69	3.9	1137	2	US-09-902-481B-6	Sequence 6, Appl
1011	69	3.9	323	3	US-10-012-752A-210	Sequence 210, App	1068	69	3.9	1142	1	US-08-993-118-7	Sequence 7, Appl
1012	69	3.9	323	3	US-10-017-253A-210	Sequence 210, App	1069	69	3.9	1142	2	US-08-845-528C-7	Sequence 7, Appl
1013	69	3.9	323	3	US-10-015-519A-210	Sequence 210, App	1070	69	3.9	1142	2	US-09-061-709-2	Sequence 2, Appl
1014	69	3.9	323	3	US-10-015-715A-210	Sequence 210, App	1071	69	3.9	1142	2	US-09-066-281B-7	Sequence 7, Appl
1015	69	3.9	323	3	US-10-007-236A-210	Sequence 210, App	1072	69	3.9	1142	2	US-09-899-651-2	Sequence 2, Appl
1016	69	3.9	334	2	US-09-198-452A-70	Sequence 70, Appl	1073	69	3.9	1142	2	US-09-468-433C-7	Sequence 7, Appl
1017	69	3.9	364	2	US-09-755-665-64	Sequence 64, Appl	1074	69	3.9	1142	2	US-09-392-714-26	Sequence 26, Appl
1018	69	3.9	390	2	US-10-245-227D-2	Sequence 2, Appl	1075	69	3.9	1142	2	US-09-270-437D-2	Sequence 2, Appl
1019	69	3.9	393	1	US-08-837-593-2	Sequence 2, Appl	1076	69	3.9	1142	3	US-10-160-237-7	Sequence 7, Appl
1020	69	3.9	395	2	US-09-755-665-34	Sequence 34, Appl	1077	69	3.9	1153	1	US-08-173-497-3	Sequence 3, Appl
1021	69	3.9	400	1	US-08-530-950-12	Sequence 12, Appl	1078	69	3.9	1153	1	US-08-286-889-3	Sequence 3, Appl
1022	69	3.9	400	2	US-08-888-429A-12	Sequence 12, Appl	1079	69	3.9	1153	1	US-08-485-618-3	Sequence 3, Appl
1023	69	3.9	400	2	US-09-149-879-12	Sequence 12, Appl	1080	69	3.9	1153	1	US-08-362-652-3	Sequence 3, Appl
1024	69	3.9	400	2	US-09-057-009-12	Sequence 12, Appl	1081	69	3.9	1153	1	US-08-605-672-3	Sequence 3, Appl
1025	69	3.9	400	2	US-09-593-653-12	Sequence 12, Appl	1082	69	3.9	1153	1	US-08-482-293A-3	Sequence 3, Appl
1026	69	3.9	400	2	US-09-134-000C-3791	Sequence 3791, Ap	1083	69	3.9	1153	1	US-08-943-363-3	Sequence 3, Appl
1027	69	3.9	461	2	US-09-328-352-7746	Sequence 7746, Ap	1084	69	3.9	1153	2	US-09-193-043-3	Sequence 3, Appl
1028	69	3.9	484	2	US-10-104-047-2240	Sequence 2240, Ap	1085	69	3.9	1153	2	US-09-688-307A-3	Sequence 3, Appl
1029	69	3.9	567	2	US-09-583-110-4823	Sequence 4823, Ap	1086	69	3.9	1153	2	US-09-350-259-3	Sequence 3, Appl
1030	69	3.9	570	2	US-09-923-684-4	Sequence 4, Appl	1087	69	3.9	1153	2	US-09-902-481B-1	Sequence 1, Appl
1031	69	3.9	576	2	US-09-107-433-4103	Sequence 4103, Ap	1088	69	3.9	1296	2	US-08-857-636-60	Sequence 60, Appl
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1033	69	3.9	599	1	US-08-222-619-2	Sequence 2, Appl	1090	69	3.9	1508	2	US-10-154-419-47	Sequence 47, Appl
1034	69	3.9	599	2	US-08-221-767-24	Sequence 24, Appl	1091	69	3.9	1508	2	US-10-154-419-85	Sequence 85, Appl
1035	69	3.9	599	5	PCT-US95-04075-2	Sequence 2, Appl	1092	69	3.9	1739	2	US-09-976-594-76	Sequence 76, Appl
1036	69	3.9	604	2	US-09-902-540-14691	Sequence 14691, A	1093	69	3.9	1739	2	US-09-538-092-824	Sequence 824, App

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1095	69	3.9	2704	2	US-09-538-092-1260	Sequence 1260, Ap
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1113	68.5	3.9	306	2	US-10-686-944-3	Sequence 3, Appli
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1326	67.5	3.8	261	2	US-08-481-985B-111	Sequence 111, App
1327	67.5	3.8	261	2	US-08-370-476-111	Sequence 111, App
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1341	67.5	3.8	412	2	US-09-198-452A-901	Sequence 901, App
1342	67.5	3.8	413	2	US-09-438-185A-838	Sequence 838, App
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1350	67.5	3.8	498	2	US-10-884-115-91	Sequence 91, Appl
1351	67.5	3.8	516	2	US-09-248-796A-17736	Sequence 17736, A
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ALIGNMENTS

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; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan I.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2830PIC23
; CURRENT APPLICATION NUMBER: US/10/012,231A
; CURRENT FILING DATE: 2002-06-10
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 477
; SEQ ID NO 423
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; TYPE: PRT
; ORGANISM: Homo sapiens
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#### SUMMARIES

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70	46	45.5	197	2	US-09-687-372-12	Sequence 12, Appli	127	46	45.5	941	2	US-10-125-778-10	Sequence 10, Appli
71	46	45.5	197	2	US-09-687-372-14	Sequence 14, Appli	128	46	45.5	941	2	US-10-125-792-8	Sequence 8, Appli
72	46	45.5	197	2	US-09-975-553-8	Sequence 8, Appli	129	46	45.5	941	2	US-10-125-792-10	Sequence 10, Appli
73	46	45.5	197	2	US-09-975-553-10	Sequence 10, Appli	130	46	45.5	1027	2	US-09-162-0218-2	Sequence 2, Appli
74	46	45.5	197	2	US-09-975-553-12	Sequence 12, Appli	131	46	45.5	1027	2	US-10-268-051-8	Sequence 8, Appli
75	46	45.5	197	2	US-09-975-553-14	Sequence 14, Appli	132	46	45.5	1027	2	US-10-125-772-2	Sequence 2, Appli
76	46	45.5	197	2	US-10-270-795-8	Sequence 8, Appli	133	46	45.5	1027	2	US-10-125-778-2	Sequence 2, Appli
77	46	45.5	197	2	US-10-270-795-10	Sequence 10, Appli	134	46	45.5	1027	2	US-10-125-792-2	Sequence 2, Appli
78	46	45.5	197	2	US-10-270-795-12	Sequence 12, Appli	135	46	45.5	1058	1	US-08-687-289A-5	Sequence 5, Appli
79	46	45.5	197	2	US-10-270-795-14	Sequence 14, Appli	136	46	45.5	1058	2	US-09-435-897-5	Sequence 5, Appli
80	46	45.5	197	2	US-10-270-876-8	Sequence 8, Appli	137	46	45.5	1059	2	US-09-134-513-2	Sequence 2, Appli
81	46	45.5	197	2	US-10-270-876-10	Sequence 10, Appli	138	46	45.5	1078	1	US-08-485-588-7	Sequence 7, Appli
82	46	45.5	197	2	US-10-270-876-12	Sequence 12, Appli	139	46	45.5	1078	1	US-08-484-565-7	Sequence 7, Appli
83	46	45.5	197	2	US-10-270-876-14	Sequence 14, Appli	140	46	45.5	1078	1	US-08-480-751-7	Sequence 7, Appli
84	46	45.5	197	2	US-10-268-051-4	Sequence 4, Appli	141	46	45.5	1078	1	US-08-943-986-7	Sequence 7, Appli
85	46	45.5	197	2	US-10-268-051-6	Sequence 6, Appli	142	46	45.5	1078	2	US-08-353-784-7	Sequence 7, Appli
86	46	45.5	197	2	US-10-411-076-2	Sequence 2, Appli	143	46	45.5	1078	2	US-08-484-719B-7	Sequence 7, Appli
87	46	45.5	197	2	US-10-411-076-4	Sequence 4, Appli	144	46	45.5	1078	2	US-08-484-159-7	Sequence 7, Appli
88	46	45.5	197	2	US-10-411-076-10	Sequence 10, Appli	145	46	45.5	1078	2	US-10-125-772-28	Sequence 28, Appli
89	46	45.5	197	2	US-10-411-076-12	Sequence 12, Appli	146	46	45.5	1078	2	US-10-125-778-28	Sequence 28, Appli
90	46	45.5	197	2	US-10-411-076-16	Sequence 16, Appli	147	46	45.5	1078	2	US-10-125-792-28	Sequence 28, Appli
91	46	45.5	197	2	US-10-411-076-18	Sequence 18, Appli	148	46	45.5	1085	1	US-08-485-588-5	Sequence 5, Appli
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93	46	45.5	199	2	US-09-687-477-4	Sequence 4, Appli	150	46	45.5	1085	1	US-08-480-751-5	Sequence 5, Appli
94	46	45.5	199	2	US-09-687-477-6	Sequence 6, Appli	151	46	45.5	1085	1	US-08-943-986-5	Sequence 5, Appli
95	46	45.5	199	2	US-09-687-477-18	Sequence 18, Appli	152	46	45.5	1085	2	US-08-353-784-5	Sequence 5, Appli
96	46	45.5	199	2	US-09-687-476-4	Sequence 4, Appli	153	46	45.5	1085	2	US-08-484-719B-5	Sequence 5, Appli
97	46	45.5	199	2	US-09-687-476-6	Sequence 6, Appli	154	46	45.5	1085	2	US-08-484-159-5	Sequence 5, Appli
98	46	45.5	199	2	US-09-687-476-18	Sequence 18, Appli	155	46	45.5	1088	1	US-08-485-588-6	Sequence 6, Appli
99	46	45.5	199	2	US-09-687-372-4	Sequence 4, Appli	156	46	45.5	1088	1	US-08-484-565-6	Sequence 6, Appli
100	46	45.5	199	2	US-09-687-372-6	Sequence 6, Appli	157	46	45.5	1088	1	US-08-480-751-6	Sequence 6, Appli
101	46	45.5	199	2	US-09-687-372-18	Sequence 18, Appli	158	46	45.5	1088	1	US-08-943-986-6	Sequence 6, Appli
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104	46	45.5	199	2	US-09-975-553-18	Sequence 18, Appli	161	46	45.5	1088	2	US-08-484-159-6	Sequence 6, Appli
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106	46	45.5	199	2	US-10-270-795-6	Sequence 6, Appli	163	45	44.6	197	2	US-10-411-076-14	Sequence 14, Appli
107	46	45.5	199	2	US-10-270-795-18	Sequence 18, Appli	164	45	44.6	256	2	US-09-148-545-180	Sequence 180, App
108	46	45.5	199	2	US-10-270-876-4	Sequence 4, Appli	165	45	44.6	256	2	US-09-621-011-180	Sequence 180, App
109	46	45.5	199	2	US-10-270-876-6	Sequence 6, Appli	166	45	44.6	355	2	US-09-634-238-384	Sequence 384, App
110	46	45.5	199	2	US-10-270-876-18	Sequence 18, Appli	167	45	44.6	416	2	US-09-758-759-145	Sequence 145, App
111	46	45.5	211	2	US-09-543-681A-6708	Sequence 6708, Ap	168	45	44.6	469	2	US-09-270-767-45360	Sequence 45360, A
112	46	45.5	388	2	US-10-125-772-6	Sequence 6, Appli	169	44.5	44.1	462	2	US-08-788-231A-15	Sequence 15, Appli
113	46	45.5	388	2	US-10-125-778-6	Sequence 6, Appli	170	44.5	44.1	465	2	US-08-788-231A-17	Sequence 17, Appli
114	46	45.5	388	2	US-10-125-792-6	Sequence 6, Appli	171	44.5	44.1	783	1	US-08-545-562A-5	Sequence 5, Appli
115	46	45.5	391	2	US-10-104-047-2911	Sequence 2911, Ap	172	44	43.6	197	2	US-09-687-477-16	Sequence 16, Appli
116	46	45.5	506	2	US-09-303-518D-692	Sequence 692, App	173	44	43.6	197	2	US-09-687-476-16	Sequence 16, Appli
117	46	45.5	506	2	US-09-303-518D-694	Sequence 694, App	174	44	43.6	197	2	US-09-687-372-16	Sequence 16, Appli
118	46	45.5	506	2	US-09-303-518D-696	Sequence 696, App	175	44	43.6	197	2	US-09-975-553-16	Sequence 16, Appli
119	46	45.5	626	2	US-09-800-729-95	Sequence 95, Appli	176	44	43.6	197	2	US-10-270-793-16	Sequence 16, Appli
120	46	45.5	657	2	US-10-411-076-20	Sequence 20, Appli	177	44	43.6	197	2	US-10-270-876-16	Sequence 16, Appli
121	46	45.5	850	2	US-10-125-772-12	Sequence 12, Appli	178	44	43.6	197	2	US-10-411-076-6	Sequence 6, Appli
122	46	45.5	850	2	US-10-125-778-12	Sequence 12, Appli	179	44	43.6	207	2	US-08-811-519-22	Sequence 22, Appli
123	46	45.5	850	2	US-10-125-792-12	Sequence 12, Appli	180	44	43.6	217	4	US-10-038-895A-7	Sequence 7, Appli
124	46	45.5	941	2	US-10-125-772-8	Sequence 8, Appli	181	44	43.6	224	2	US-09-843-598-6	Sequence 6, Appli



182	44	43.6	231	2	US-09-134-000C-5609	Sequence 5609, Ap	239	43	42.6	913	2	US-09-252-991A-29362	Sequence 29362, A
183	44	43.6	278	2	US-09-489-039A-9086	Sequence 9086, Ap	240	43	42.6	1449	2	US-08-840-062-6	Sequence 6, Appli
184	44	43.6	405	2	US-09-489-039A-9411	Sequence 9411, Ap	241	43	42.6	1723	2	US-09-194-612A-31	Sequence 31, Appl
185	44	43.6	421	2	US-09-843-598-9	Sequence 9, Appli	242	42.5	42.1	83	2	US-09-270-767-34021	Sequence 34021, A
186	44	43.6	489	1	US-08-663-568A-6	Sequence 6, Appli	243	42.5	42.1	83	2	US-09-270-767-49238	Sequence 49238, A
187	44	43.6	489	1	US-08-023-610-6	Sequence 6, Appli	244	42.5	42.1	281	2	US-09-118-408-44	Sequence 44, Appl
188	44	43.6	489	1	US-08-288-065A-6	Sequence 6, Appli	245	42.5	42.1	281	2	US-09-506-855-44	Sequence 44, Appl
189	44	43.6	489	1	US-08-362-240A-6	Sequence 6, Appli	246	42.5	42.1	281	2	US-09-911-176B-44	Sequence 44, Appl
190	44	43.6	489	2	US-08-804-372A-4	Sequence 4, Appli	247	42.5	42.1	281	2	US-09-619-740-44	Sequence 44, Appl
191	44	43.6	489	5	PCT-US95-10245-6	Sequence 6, Appli	248	42.5	42.1	281	2	US-09-506-852-44	Sequence 44, Appl
192	44	43.6	530	2	US-09-949-016-10781	Sequence 10781, A	249	42.5	42.1	281	2	US-10-392-706-44	Sequence 44, Appl
193	44	43.6	595	1	US-08-677-049-11	Sequence 11, Appl	250	42	41.6	33	2	US-09-471-276-1019	Sequence 1019, Ap
194	44	43.6	671	2	US-08-843-598-5	Sequence 5, Appli	251	42	41.6	102	2	US-09-107-433-2605	Sequence 2605, Ap
195	44	43.6	671	2	US-08-843-598-7	Sequence 7, Appli	252	42	41.6	117	2	US-09-489-039A-9835	Sequence 9835, Ap
196	44	43.6	886	2	US-09-110-116-3	Sequence 3, Appli	253	42	41.6	154	2	US-09-540-236-3209	Sequence 3209, Ap
197	44	43.6	886	2	US-09-631-603-14	Sequence 14, Appl	254	42	41.6	155	2	US-09-252-991A-17892	Sequence 17892, A
198	44	43.6	909	2	US-09-949-016-6370	Sequence 6370, Ap	255	42	41.6	259	2	US-09-583-110-4024	Sequence 4024, Ap
199	44	43.6	1079	1	US-08-485-588-8	Sequence 8, Appli	256	42	41.6	296	1	US-08-467-948A-2	Sequence 2, Appli
200	44	43.6	1079	1	US-08-484-565-8	Sequence 8, Appli	257	42	41.6	296	2	US-08-467-947A-2	Sequence 2, Appli
201	44	43.6	1079	1	US-08-480-751-8	Sequence 8, Appli	258	42	41.6	307	2	US-09-543-681A-6808	Sequence 6808, Ap
202	44	43.6	1079	1	US-08-943-986-8	Sequence 8, Appli	259	42	41.6	358	2	US-09-501-115-30	Sequence 30, Appl
203	44	43.6	1079	2	US-08-353-784-8	Sequence 8, Appli	260	42	41.6	358	2	US-10-357-886-30	Sequence 30, Appl
204	44	43.6	1079	2	US-08-484-719B-8	Sequence 8, Appli	261	42	41.6	413	2	US-09-489-039A-12692	Sequence 12692, A
205	44	43.6	1079	2	US-08-484-159-8	Sequence 8, Appli	262	42	41.6	453	2	US-10-094-749-2468	Sequence 2468, Ap
206	43	42.6	68	2	US-09-270-767-35016	Sequence 35016, A	263	42	41.6	461	2	US-09-303-518D-586	Sequence 586, App
207	43	42.6	68	2	US-09-270-767-50233	Sequence 50233, A	264	42	41.6	461	2	US-09-303-518D-588	Sequence 588, App
208	43	42.6	178	1	US-07-996-772A-6	Sequence 6, Appli	265	42	41.6	461	2	US-09-303-518D-590	Sequence 590, App
209	43	42.6	178	1	US-08-446-822-6	Sequence 6, Appli	266	42	41.6	461	2	US-09-303-518D-592	Sequence 592, App
210	43	42.6	178	2	US-09-328-314-6	Sequence 6, Appli	267	42	41.6	479	2	US-08-660-451A-20	Sequence 20, Appl
211	43	42.6	178	5	PCT-US93-12586-6	Sequence 6, Appli	268	42	41.6	494	2	US-08-487-596-10	Sequence 10, Appl
212	43	42.6	261	1	US-08-446-822-15	Sequence 15, Appl	269	42	41.6	494	2	US-08-484-722-2	Sequence 2, Appli
213	43	42.6	261	2	US-09-328-314-15	Sequence 15, Appl	270	42	41.6	494	2	US-08-660-451A-10	Sequence 10, Appl
214	43	42.6	261	5	PCT-US93-12586-15	Sequence 15, Appl	271	42	41.6	494	2	US-09-703-951A-10	Sequence 10, Appl
215	43	42.6	320	2	US-09-543-681A-6667	Sequence 6667, Ap	272	42	41.6	517	2	US-09-489-039A-10153	Sequence 10153, A
216	43	42.6	360	2	US-09-555-313B-4	Sequence 4, Appli	273	42	41.6	521	2	US-08-956-322-4	Sequence 4, Appli
217	43	42.6	360	2	US-08-826-509-443	Sequence 443, App	274	42	41.6	592	2	US-09-902-540-10635	Sequence 10635, A
218	43	42.6	378	2	US-09-826-509-445	Sequence 445, App	275	42	41.6	627	2	US-09-902-540-15743	Sequence 15743, A
219	43	42.6	380	2	US-09-555-313B-24	Sequence 24, Appl	276	42	41.6	652	2	US-09-110-116-1	Sequence 1, Appli
220	43	42.6	380	2	US-09-826-509-441	Sequence 441, App	277	42	41.6	652	2	US-08-956-322-2	Sequence 2, Appli
221	43	42.6	387	2	US-09-826-509-436	Sequence 436, App	278	42	41.6	676	2	US-09-815-923-12	Sequence 12, Appl
222	43	42.6	388	1	US-08-446-822-8	Sequence 8, Appli	279	42	41.6	735	2	US-10-094-749-2843	Sequence 2843, Ap
223	43	42.6	388	2	US-09-328-314-8	Sequence 8, Appli	280	42	41.6	1332	2	US-09-252-991A-25772	Sequence 25772, A
224	43	42.6	388	2	US-09-328-352-7532	Sequence 7532, Ap	281	42	41.6	1727	1	US-08-477-451-10	Sequence 10, Appl
225	43	42.6	388	2	US-09-826-509-439	Sequence 439, App	282	41.5	41.1	90	2	US-09-198-452A-1151	Sequence 1151, Ap
226	43	42.6	388	5	PCT-US93-12586-8	Sequence 8, Appli	283	41.5	41.1	151	2	US-09-902-540-14278	Sequence 14278, A
227	43	42.6	400	1	US-08-747-887-2	Sequence 2, Appli	284	41.5	41.1	277	1	US-08-147-784-2	Sequence 2, Appli
228	43	42.6	402	2	US-10-018-257A-2	Sequence 2, Appli	285	41.5	41.1	277	2	US-08-195-967-2	Sequence 2, Appli
229	43	42.6	498	2	US-09-107-532A-5037	Sequence 5037, Ap	286	41.5	41.1	277	2	US-09-006-353A-12	Sequence 12, Appl
230	43	42.6	519	2	US-09-134-000C-4482	Sequence 4482, Ap	287	41.5	41.1	277	2	US-08-472-940-2	Sequence 2, Appli
231	43	42.6	545	2	US-09-198-452A-519	Sequence 519, App	288	41.5	41.1	277	2	US-09-573-986-12	Sequence 12, Appl
232	43	42.6	545	2	US-09-438-185A-483	Sequence 483, App	289	41.5	41.1	277	2	US-09-880-939-2	Sequence 2, Appli
233	43	42.6	580	1	US-08-677-049-12	Sequence 12, Appl	290	41.5	41.1	277	2	US-09-804-200-2	Sequence 2, Appli
234	43	42.6	635	2	US-10-101-464A-932	Sequence 932, App	291	41.5	41.1	277	2	US-10-046-433-3	Sequence 3, Appli
235	43	42.6	718	2	US-09-252-991A-28229	Sequence 28229, A	292	41.5	41.1	366	2	US-09-134-000C-4120	Sequence 4120, Ap
236	43	42.6	760	2	US-09-555-313B-2	Sequence 2, Appli	293	41.5	41.1	760	2	US-09-438-185A-128	Sequence 128, App
237	43	42.6	877	1	US-08-430-925A-4	Sequence 4, Appli	294	41.5	41.1	1040	2	US-09-489-039A-10700	Sequence 10700, A
238	43	42.6	877	2	US-10-043-418-1	Sequence 1, Appli	295	41	40.6	114	2	US-09-489-847-321	Sequence 321, App

296	41	40.6	125	2	US-09-198-452A-1172	Sequence 1172, Ap	353	40	39.6	156	2	US-10-423-007-20	Sequence 20, Appl
297	41	40.6	155	2	US-09-501-115-48	Sequence 48, Appl	354	40	39.6	167	2	US-09-270-767-38468	Sequence 38468, A
298	41	40.6	155	2	US-10-357-886-48	Sequence 48, Appl	355	40	39.6	167	2	US-09-270-767-53685	Sequence 53685, A
299	41	40.6	178	2	US-09-489-039A-11589	Sequence 11589, A	356	40	39.6	171	2	US-09-902-540-10737	Sequence 10737, A
300	41	40.6	226	2	US-09-328-352-6388	Sequence 6388, Ap	357	40	39.6	180	1	US-08-624-650-1	Sequence 1, Appli
301	41	40.6	228	2	US-09-252-991A-26379	Sequence 26379, A	358	40	39.6	180	2	US-09-818-648-1	Sequence 1, Appli
302	41	40.6	232	2	US-09-438-185A-227	Sequence 227, App	359	40	39.6	180	2	US-09-355-925-5	Sequence 5, Appli
303	41	40.6	282	2	US-09-248-796A-14310	Sequence 14310, A	360	40	39.6	180	2	US-09-787-375-2	Sequence 2, Appli
304	41	40.6	300	2	US-09-982-616-9	Sequence 9, Appli	361	40	39.6	180	2	US-09-622-166A-3	Sequence 3, Appli
305	41	40.6	314	2	US-09-248-796A-17612	Sequence 17612, A	362	40	39.6	180	2	US-09-269-921-129	Sequence 129, App
306	41	40.6	320	4	US-10-038-895A-5	Sequence 5, Appli	363	40	39.6	180	2	US-10-423-007-3	Sequence 3, Appl
307	41	40.6	338	2	US-09-902-540-11149	Sequence 11149, A	364	40	39.6	183	2	US-09-949-016-10208	Sequence 10208, A
308	41	40.6	360	2	US-09-501-115-32	Sequence 32, Appl	365	40	39.6	227	2	US-09-248-796A-15723	Sequence 15723, A
309	41	40.6	360	2	US-10-357-886-32	Sequence 32, Appl	366	40	39.6	248	2	US-09-270-767-38407	Sequence 38407, A
310	41	40.6	364	2	US-09-198-452A-423	Sequence 423, App	367	40	39.6	248	2	US-09-270-767-53624	Sequence 53624, A
311	41	40.6	364	2	US-09-438-185A-406	Sequence 406, App	368	40	39.6	267	2	US-09-198-452A-231	Sequence 231, App
312	41	40.6	397	2	US-09-252-991A-27923	Sequence 27923, A	369	40	39.6	274	2	US-09-134-000C-6450	Sequence 6450, Ap
313	41	40.6	420	2	US-09-328-352-5907	Sequence 5907, Ap	370	40	39.6	299	2	US-09-252-991A-18741	Sequence 18741, A
314	41	40.6	454	2	US-09-489-847-305	Sequence 305, App	371	40	39.6	303	2	US-09-489-039A-8915	Sequence 8915, Ap
315	41	40.6	479	2	US-09-830-230A-382	Sequence 382, App	372	40	39.6	308	2	US-09-328-352-5359	Sequence 5359, Ap
316	41	40.6	492	2	US-09-999-833A-7	Sequence 7, Appli	373	40	39.6	343	2	US-09-902-540-13559	Sequence 13559, A
317	41	40.6	492	2	US-10-020-445A-7	Sequence 7, Appli	374	40	39.6	357	2	US-09-134-001C-3373	Sequence 3373, Ap
318	41	40.6	492	2	US-09-978-189-7	Sequence 7, Appli	375	40	39.6	409	2	US-09-560-761B-24	Sequence 24, Appl
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320	41	40.6	492	3	US-10-145-129A-7	Sequence 7, Appli	377	40	39.6	446	2	US-09-543-681A-5890	Sequence 5890, Ap
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322	41	40.6	492	3	US-10-013-917A-7	Sequence 7, Appli	379	40	39.6	493	2	US-09-252-991A-28024	Sequence 28024, A
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327	41	40.6	681	2	US-09-270-767-45330	Sequence 45330, A	384	40	39.6	638	2	US-10-154-419-83	Sequence 83, Appl
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333	40.5	40.1	706	2	US-10-094-749-3082	Sequence 3082, Ap	390	40	39.6	1036	2	US-08-953-823A-5	Sequence 5, Appli
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627	38	37.6	105	2	US-10-004-860-330	Sequence 330, App
628	38	37.6	106	2	US-10-094-749-2806	Sequence 2806, Ap
629	38	37.6	113	2	US-09-489-039A-11952	Sequence 11952, A
630	38	37.6	130	2	US-09-270-767-43485	Sequence 43485, A
631	38	37.6	134	2	US-08-513-974B-328	Sequence 328, App
632	38	37.6	157	2	US-09-252-991A-24547	Sequence 24547, A
633	38	37.6	162	2	US-09-252-991A-24535	Sequence 24535, A
634	38	37.6	163	2	US-10-094-749-3214	Sequence 3214, Ap
635	38	37.6	173	2	US-09-270-767-34680	Sequence 34680, A
636	38	37.6	173	2	US-09-270-767-49897	Sequence 49897, A
637	38	37.6	211	2	US-09-902-540-9913	Sequence 9913, Ap

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639	38	37.6	236	2	US-09-583-110-3029	Sequence 3029, Ap	696	38	37.6	564	2	US-09-252-991A-18257	Sequence 18257, A
640	38	37.6	241	2	US-09-107-433-4815	Sequence 4815, Ap	697	38	37.6	583	2	US-09-270-767-43661	Sequence 43661, A
641	38	37.6	248	2	US-09-489-039A-11898	Sequence 11898, A	698	38	37.6	589	2	US-09-740-041-2	Sequence 2, Appli
642	38	37.6	252	2	US-09-252-991A-17553	Sequence 17553, A	699	38	37.6	629	2	US-10-101-464A-927	Sequence 927, App
643	38	37.6	261	2	US-09-540-236-3402	Sequence 3402, Ap	700	38	37.6	632	2	US-09-949-016-10386	Sequence 10386, A
644	38	37.6	264	2	US-09-270-767-42160	Sequence 42160, A	701	38	37.6	634	2	US-09-949-016-11421	Sequence 11421, A
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646	38	37.6	281	2	US-09-252-991A-25970	Sequence 25970, A	703	38	37.6	635	1	US-08-753-985-9	Sequence 9, Appli
647	38	37.6	287	2	US-09-252-991A-28828	Sequence 28828, A	704	38	37.6	667	1	US-07-879-617A-8	Sequence 8, Appli
648	38	37.6	289	2	US-09-489-039A-10785	Sequence 10785, A	705	38	37.6	667	1	US-08-753-985-8	Sequence 8, Appli
649	38	37.6	289	2	US-09-489-039A-12543	Sequence 12543, A	706	38	37.6	685	2	US-09-720-317A-31	Sequence 31, Appl
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653	38	37.6	345	2	US-09-252-991A-28113	Sequence 28113, A	710	38	37.6	722	2	US-09-262-537-10	Sequence 10, Appl
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657	38	37.6	367	2	US-09-226-741-3	Sequence 3, Appli	714	38	37.6	832	2	US-10-117-846-4	Sequence 4, Appli
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661	38	37.6	386	2	US-09-605-703B-2800	Sequence 2800, Ap	718	38	37.6	867	2	US-10-044-564-134	Sequence 134, App
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674	38	37.6	428	1	US-08-417-103-12	Sequence 12, Appl	731	38	37.6	1709	2	US-09-949-016-10503	Sequence 10503, A
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678	38	37.6	452	2	US-09-328-352-7869	Sequence 7869, Ap	735	37.5	37.1	100	2	US-09-107-532A-3844	Sequence 3844, Ap
679	38	37.6	458	2	US-09-489-039A-10560	Sequence 10560, A	736	37.5	37.1	112	2	US-09-513-999C-4379	Sequence 4379, Ap
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687	38	37.6	493	2	US-09-489-039A-13709	Sequence 13709, A	744	37.5	37.1	518	2	US-09-487-558B-424	Sequence 424, App
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691	38	37.6	524	2	US-09-712-363-224	Sequence 224, App	748	37.5	37.1	612	1	US-08-286-846A-8	Sequence 8, Appli
692	38	37.6	530	2	US-09-949-016-8316	Sequence 8316, Ap	749	37.5	37.1	612	1	US-08-457-880A-8	Sequence 8, Appli
693	38	37.6	531	2	US-09-248-796A-15560	Sequence 15560, A	750	37.5	37.1	612	2	US-08-444-622A-8	Sequence 8, Appli
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792	37.5	37.1	167	2	US-09-438-185A-132	Sequence 132, App	849	37	36.6	298	2	US-09-602-777A-384	Sequence 384, App
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795	37.5	37.1	174	2	US-09-270-767-52281	Sequence 52281, A	852	37	36.6	304	4	US-10-038-895A-9	Sequence 9, Appli
796	37.5	37.1	174	2	US-09-107-532A-4715	Sequence 4715, Ap	853	37	36.6	308	2	US-09-543-681A-7751	Sequence 7751, Ap
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800	37.5	37.1	201	1	US-09-113-788-1	Sequence 1, Appli	857	37	36.6	334	2	US-09-270-767-45533	Sequence 45533, A
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805	37.5	37.1	201	3	US-10-145-129A-477	Sequence 477, App	862	37	36.6	375	5	US-08-118-270-17	Sequence 17, Appli
806	37.5	37.1	201	3	US-10-013-929A-477	Sequence 477, App	863	37	36.6	375	5	PCT-US93-08528-17	Sequence 17, Appli
807	37.5	37.1	201	3	US-10-013-917A-477	Sequence 477, App	864	37	36.6	378	2	US-08-867-611-33	Sequence 33, Appli
808	37.5	37.1	203	2	US-09-134-001C-4445	Sequence 4445, Ap	865	37	36.6	378	2	US-09-690-359-33	Sequence 33, Appli

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871	37	36.6	392	2	US-09-912-935-23	Sequence 23, Appl	928	37	36.6	574	2	US-09-823-038A-36	Sequence 36, Appl
872	37	36.6	392	2	US-09-912-935-25	Sequence 25, Appl	929	37	36.6	574	2	US-09-943-075A-5	Sequence 5, Appli
873	37	36.6	393	2	US-09-351-150A-29	Sequence 29, Appl	930	37	36.6	575	1	US-08-261-206A-59	Sequence 59, Appl
874	37	36.6	396	2	US-09-198-452A-147	Sequence 147, App	931	37	36.6	575	1	US-08-312-870-1	Sequence 1, Appli
875	37	36.6	419	2	US-09-252-991A-17406	Sequence 17406, A	932	37	36.6	575	1	US-08-170-290A-54	Sequence 54, Appl
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877	37	36.6	421	2	US-09-540-236-2339	Sequence 2339, Ap	934	37	36.6	575	2	US-10-438-648-2	Sequence 2, Appli
878	37	36.6	425	2	US-09-489-039A-10514	Sequence 10514, A	935	37	36.6	575	2	US-09-949-002-296	Sequence 296, App
879	37	36.6	425	2	US-09-912-935-35	Sequence 35, Appl	936	37	36.6	575	7	5466668-6	Patent No. 5466668
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881	37	36.6	427	2	US-09-689-065B-3	Sequence 3, Appli	938	37	36.6	580	2	US-10-044-564-95	Sequence 95, Appl
882	37	36.6	427	2	US-10-210-296A-3	Sequence 3, Appli	939	37	36.6	585	2	US-09-252-991A-32849	Sequence 32849, A
883	37	36.6	429	1	US-08-748-485-7	Sequence 7, Appli	940	37	36.6	621	2	US-09-720-317A-16	Sequence 16, Appl
884	37	36.6	429	2	US-09-919-039-6	Sequence 6, Appli	941	37	36.6	627	2	US-09-213-888-3	Sequence 3, Appli
885	37	36.6	436	2	US-09-134-000C-3950	Sequence 3950, Ap	942	37	36.6	627	2	US-09-328-877D-3	Sequence 3, Appli
886	37	36.6	446	2	US-10-177-661-4	Sequence 4, Appli	943	37	36.6	628	2	US-10-101-464A-917	Sequence 917, App
887	37	36.6	454	2	US-08-444-818-73	Sequence 73, Appl	944	37	36.6	635	2	US-09-489-039A-13395	Sequence 13395, A
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889	37	36.6	459	2	US-09-303-518D-214	Sequence 214, App	946	37	36.6	661	2	US-09-575-081B-23	Sequence 23, Appl
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891	37	36.6	466	1	US-08-334-698-6	Sequence 6, Appli	948	37	36.6	663	2	US-09-415-582-3	Sequence 3, Appli
892	37	36.6	466	1	US-08-228-932-6	Sequence 6, Appli	949	37	36.6	663	2	US-09-693-596-4	Sequence 4, Appli
893	37	36.6	466	1	US-08-468-933-6	Sequence 6, Appli	950	37	36.6	666	2	US-09-213-888-27	Sequence 27, Appl
894	37	36.6	466	1	US-08-722-001-12	Sequence 12, Appl	951	37	36.6	666	2	US-09-328-877D-27	Sequence 27, Appl
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896	37	36.6	466	1	US-08-467-568-11	Sequence 11, Appl	953	37	36.6	669	2	US-09-328-877D-25	Sequence 25, Appl
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914	37	36.6	480	1	US-08-440-542-14	Sequence 14, Appl	971	37	36.6	690	2	US-09-906-679A-49	Sequence 49, Appl
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1131	36	35.6	86	2	US-09-247-155-112	Sequence 112, App	1188	36	35.6	223	2	US-10-012-542-494	Sequence 494, App
1132	36	35.6	86	2	US-10-290-579A-248	Sequence 248, App	1189	36	35.6	223	2	US-10-115-123-494	Sequence 494, App
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Sequence 15, Appl  
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Sequence 20, Appl  
Sequence 2368, Ap  
Sequence 24581, A  
Sequence 164, Appl  
Sequence 3248, Ap  
Sequence 38757, A  
Sequence 53974, A  
Sequence 2508, Ap  
Sequence 3954, Ap  
Sequence 65, Appl  
Sequence 45066, A  
Sequence 4941, Ap  
Sequence 2756, Ap  
Sequence 4825, Ap  
Sequence 45559, A  
Sequence 374, Appl  
Sequence 17550, A  
Sequence 37, Appl  
Sequence 37, Appl  
Sequence 37, Appl  
Sequence 40, Appl  
Sequence 55, Appl  
Sequence 57, Appl  
Sequence 59, Appl  
Sequence 61, Appl  
Sequence 63, Appl  
Sequence 68, Appl  
Sequence 69, Appl  
Sequence 70, Appl

## ALIGNMENTS

US-10-012-231A-423

Query Match: 100.0%: score 101: DB 2: Length 337:

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Best Local Similarity 100.0%; Pred. No. 6.2e-07;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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291 I-SI-GVGT I-VGCI-CL-I-I-AWVF 310

RESOLUTION 2  
IIS-10-015-389A-423

; Sequence 423, Application US/10015389A

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